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STATE DOCUMENTS

MONTANA OIL AND GAS STATISTICAL BULLETIN

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OIL AND GAS CONSERVATION COMMISSION
SAVINGS BLDG.

HELENA, MONTANA

Vol. XIX, No. 3 MARCH, 1971

Production of crude oil and condensate from the oil and gas areas of Montana for the month of March, 1971 averaged 98,635 barrels daily, a decrease of 20 barrels from the average February, 1971 production of 98,655.

The nine refineries in the state processed 127,225 barrels of crude oil daily for the month of March, 1971, an increase of 560 barrels from the 126,665 barrels processed daily during the month of February, 1971.

During March 37 wells were completed, 6 oil, 1 gas and 30 dry holes.

During March the commission issued 20 permits to drill new wells, a decrease of 3 from the 23 permits issued during February.

SUMMARY OF CRUDE OIL PRODUCTION REFINING, STORAGE, ETC., IN MONTANA MONTH OF MARCH, 1971

IN STORAGE MARCH 1st	
By Producers	334,347
By Transporters	1,202,148
By Refiners	910,855
TOTAL STORAGE	2,447,350
Produced in Montana During Month	3,058,253
Imported During Month	3,105,147
TOTALS	8,610,750
DISPOSITION:	
Refined in Montana	3,943,973
Exported	2,426,826
Used for Fuel or Lost	11,028
TOTAL	6,381,827
IN STORAGE MARCH 31st	
By Producers	334,585
By Transporters	1,128,200
By Refiners	766,138
TOTAL STORAGE	2,228,923

NATURAL GAS WITHDRAWALS IN MONTANA

Month of March, 1971

Field	M. Cu. Ft.
Bell Creek	287,244
Big Coulee	121,001
Blackjack	79,089
Bowdoin	228,309
Bowes	29,777
Cabin Creek	104,688
Cedar Creek	608,002
Cut Bank (including Reagan)	2,478,159
Dry Creek	42,339
Elk Basin	77,289
Flat Coulee	24,891
Gold Butte	0
Grandview	55,213
Hardin	1,786
Keith Block	156,951
Kevin Sunburst	51,712
Lake Basin	88,405
Middle Butte	815
Mt. Lilly	55,156
Pine	56,311
Plevna	8,430
Tiger Ridge—Squaw Coulee	155,986
Utopia	63,660
Whitlash	104,461
Miscellaneous	197,096
TOTAL	5,076,770

Total Withdrawals for March, 1970 were 3,762,701

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PRODUCERS REPORT — MONTH OF MARCH, 1971

Leases	Field	No. of Wells	Storage 1st of Month	Oil Produced	Oil Shipped By Pipeline	Oil Shipped By Truck	Used or Lost	Storage End of Month
3	Ash Creek	3	216	1,961	—	1,787	—	390
1	Bainville	1	2,723	4,744	—	4,233	—	3,234
1	Bannatyne	1	573	201	201	—	—	573
—	Bascom	—	165	—	—	—	—	165
4	Bear's Den	4	1,273	934	—	829	—	1,378
48	Bell Creek	357	38,287	579,952	580,990	—	971	36,278
—	Benrud	—	120	—	—	—	—	120
2	Benrud East	2	1,387	13,297	13,533	—	—	1,151
1	Benrud Northeast	1	517	2,612	2,368	—	—	761
—	Berthelote	—	69	—	—	—	—	69
5	Big Wall	16	2,743	9,313	10,087	—	—	1,969
3	Blackfoot	4	862	664	567	—	—	959
2	Border	2	808	534	—	550	—	792
1	Bowes	53	9,200	13,813	14,530	—	—	8,483
1	Bradley	1	428	636	807	—	—	257
1	Brady	1	360	122	186	—	—	296
4	Brorson-Madison	4	1,357	4,875	—	5,016	—	1,216
6	Brorson-Red River	6	4,825	16,284	—	15,928	—	5,181
3	Brorson-Red River South	3	2,632	9,110	—	9,444	—	2,298
5	Brush Lake	5	530	35,653	34,558	—	—	1,625
2	Cabin Creek	94	—	304,107	304,107	—	—	—
1	Canal	1	654	11,039	—	11,016	—	677
12	Cat Creek	60	3,022	16,573	14,651	3,077	—	1,867
—	Clark's Fork	—	56	—	—	—	—	56
1	Clark's Fork South	1	252	2,090	—	1,861	—	481
3	Conrad South	3	173	990	990	—	—	173
2	Cow Creek	2	182	2,592	—	2,370	—	404
1	Culbertson	1	494	543	—	842	—	195
2	Cupton	2	1,977	1,798	—	1,640	—	2,135
132	Cut Bank	840	55,625	483,966	483,790	—	297	55,504
—	Dean Dome	—	65	—	—	—	—	65
1	Deer Creek	1	512	1,346	1,301	—	—	557
1	Delphia	1	85	494	—	203	—	376
—	Devil's Basin	—	671	—	—	—	—	671
2	Dwyer	14	4,439	25,082	25,358	—	—	4,163
3	Elk Basin	48	958	165,592	165,616	—	—	934
5	Elk Basin Northwest	14	8,406	8,503	8,342	—	—	8,567
7	Fairview	11	8,874	43,850	17,583	27,596	201	7,344
2	Fertile Prairie	2	703	1,371	—	983	—	1,091
8	Flat Coulee	26	4,557	8,312	7,315	—	—	5,554
43	Flat Lake	59	4,449	57,147	55,645	—	—	5,951
3	Flat Lake South	3	664	11,444	10,838	—	—	1,270
1	Ft. Gilbert	1	431	16,332	—	16,202	—	561
1	Frannie	1	—	1,457	1,457	—	—	—
12	Fred and George Creek	34	3,226	28,875	29,635	—	—	2,466
—	Gage	—	31	—	—	—	—	31
3	Gas City	17	7,839	18,160	13,052	5,027	—	7,920
2	Girard	2	1,013	5,085	—	5,457	—	641
11	Glendive	15	3,596	27,593	27,747	—	—	3,442
28	Goose Lake	34	5,476	39,701	38,722	—	—	6,455
8	Graben Coulee	16	4,000	4,057	1,246	2,849	—	3,962
2	Gypsy Basin	2	—	1,150	206	—	—	944
1	Hay Creek—Mission Canyon	1	102	1,736	1,644	—	—	194
2	Hay Creek—Red River	2	458	7,136	6,796	—	—	798
4	Hiawatha	4	3,673	6,643	7,597	—	—	2,719
1	Hibbard	1	693	470	—	614	—	549
1	Injun Creek	1	1,093	466	—	1,243	—	316
6	Ivanhoe	12	1,825	5,653	5,641	—	—	1,837
—	Jim Coulee	—	186	—	—	—	84	102
4	Keg Coulee	18	4,539	12,305	13,069	—	—	3,775
2	Keg Coulee North	2	630	648	—	—	—	1,278
1	Kelley	5	537	4,117	4,335	—	—	319
68	Kevin Sunburst	359	9,306	23,742	21,484	3,412	—	8,152
8	Laird Creek	10	815	4,231	—	4,551	—	495
2	Leary	2	788	2,365	—	1,605	9	1,539
1	Little Beaver	23	—	34,780	34,780	—	—	—
2	Little Beaver East *	13	1,645	16,635	16,155	—	—	2,125
1	Little Wall Creek	1	1,324	3,700	4,430	—	—	594
—	Lodge Grass	—	502	—	—	—	—	502
3	Lookout Butte (Coral Creek)	31	1,178	66,530	66,518	—	—	1,190
—	Mackay Dome	—	1,134	—	—	—	1,134	—
2	Mason Lake	2	233	333	—	—	—	566
3	Melstone	4	1,361	1,627	1,874	—	—	1,114
1	Mineral Bench	1	671	241	649	—	—	263
2	Miner's Coulee	2	107	900	—	900	—	107
11	Monarch	14	4,010	18,471	12,895	4,919	—	4,667
2	Otis Creek	2	443	3,656	—	3,497	—	602
6	Outlook	9	9,517	18,121	20,797	—	—	6,841
1	Outlook South	1	1,269	918	891	—	—	1,296
2	Outlook West	2	2,013	2,521	3,132	—	—	1,402
1	Pennel-Lookout Butte	112	—	141,120	141,120	—	—	—
4	Pine	114	16,995	268,183	267,700	—	—	17,478
66	Pondera	278	6,382	25,553	25,959	—	—	5,976
8	Poplar	66	9,309	54,022	54,562	—	—	8,769
3	Poplar Northwest	3	1,296	995	882	—	—	1,409
—	Prairie Elk	—	346	—	—	—	—	346
3	Pritchard Creek	3	167	1,502	1,502	—	—	167
4	Ragged Point	12	2,751	6,811	6,759	—	—	2,803
2	Rattlesnake Coulee	2	781	483	811	—	—	453
2	Reagan	46	344	19,678	19,578	—	—	444
1	Red Creek	21	—	15,895	15,895	—	—	—
1	Red Fox	1	274	957	876	—	—	355
1	Redstone	1	532	2,870	2,817	—	—	585
1	Repeat	1	720	1,131	—	1,311	—	540
5	Reserve	5	—	9,059	9,059	—	—	—
1	Richey	1	276	697	426	—	—	547
1	Richey Southwest	6	74	3,294	—	3,272	—	96
—	Rough Creek	—	266	—	—	—	—	266
1	Rush Mountain	1	601	3,077	3,083	—	—	595
2	Salt Lake	2	609	4,115	—	4,085	—	639
5	Sand Creek	8	5,576	5,374	6,414	—	—	4,536
1	Shotgun Creek	1	248	200	—	200	—	248
1	Sidney	1	150	500	—	500	—	150
1	Snyder	4	1,190	502	—	980	—	712
5	Soap Creek	15	2,518	4,116	—	4,113	—	2,521
1	Spring Lake	2	2,030	2,078	—	2,384	—	1,724
1	Stensvad	4	2,331	39,532	38,519	—	—	3,344
9	Sumatra	77	6,529	58,575	52,126	—	58	12,920
5	Tule Creek	6	3,074	28,679	—	28,428	—	3,325
2	Tule Creek East	2	976	9,128	—	9,534	—	570
2	Tule Creek South	3	2,731	3,958	—	5,498	22	1,169
2	Vida	2	568	1,541	—	1,154	—	955
3	Volt	4	2,590	12,811	12,461	—	—	2,940
2	Weed Creek	3	408	2,680	2,541	—	3	544
3	Weldon	7	871	15,908	15,417	—	—	1,362
1	West Butte	1	—	2,340	—	2,840	—	—
14	Whitlash	39	7,083	11,070	10,991	—	—	7,162
1	Whitlash West	1	865	212	630	—	—	447
3	Willow Creek North	4	730	6,897	6,170	—	—	1,457
2	Wills Creek South	2	—	3,782	3,782	—	—	—
5	Wolf Springs	5	3,219	4,699	5,125	—	—	2,793
2	Woodrow	2	237	2,006	1,866	—	—	377
4	Wright Creek	4	1,163	3,268	1,927	—	—	2,504
1	Wildcat, Blaine Cty	1	404	130	—	—	—	534
—	Wildcat, Carbon Cty	—	310	—	—	—	—	310
—	Wildcat, Daniels Cty	—	174	—	—	—	—	174
1	Wildcat, Fallon Cty	3	972	9,587	—	8,689	—	1,870
2	Wildcat, Glacier Cty	5	1,480	819	1,112	—	—	1,187
1	Wildcat, Liberty Cty	1	415	72	—	—	—	487
3	Wildcat, Richland Cty	3	928	26,747	—	26,677	—	998
1	Wildcat, Roosevelt Cty	1	1,297	17,956	—	18,450	—	803
1	Wildcat, Toole Cty	1	—	1,245	—	1,245	—	—
719	Total	3,178	334,347	3,058,253	2,798,225	257,011	2,779	334,585

Total Oil Produced & Shipped From Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1970	37,878,697	103,777	37,852,275	103,705
January, 1971	3,107,056	100,228	3,104,734	100,153
February, 1971	2,762,354	98,655	2,763,160	98,684
March, 1971	3,058,253	98,653	3,055,236	98,556

Oil In Storage	In Producers Field Tank	In Transporters Storage	In Refiners Storage‡	Total Oil In Storage‡
Year, 1970	4,277,891	16,795,112	10,399,079	31,472,082
January, 1971	335,971	1,420,817	898,929	2,655,717
February, 1971	334,347	1,202,148	910,855	2,447,350
March, 1971	334,585	1,128,200	766,138	2,288,923

*Montana Oil Only. ‡Includes Wyoming Oil.

TRANSPORTERS REPORT — MONTH OF MARCH, 1971

	Storage First of Month	OIL RECEIVED BY			Loss or (Gain)	OIL SHIPPED TO			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Truck			1,787				1,787		
BAINVILLE—									
Rock Island Oil & Ref. Co.			4,233				4,233		
BEAR'S DEN—Truck			829				829		
BELL CREEK—Pipeline	84,234	580,990					386,735	214,654	63,835
BIG WALL—									
Continental Pipeline Co.		10,087				10,087			
BLACKFOOT—									
Camerland Cardinal Corp.		567						567	
BORDER—Permian Corp.			550					550	
BOWES—Texaco Inc.		14,530				14,530			
BRORSON-MADISON, BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			30,388					30,388	
BRUSH LAKE—Portal Pipeline Co.		37,033					37,033		
CABIN CREEK & OTHERS—*									
Butte Pipeline Co.	334,943	741,254	20,306	716,235			1,495,745		316,993
Shell Pipeline Co.	4,828	277,479			3,058			274,398	4,851
	339,771	1,018,733	20,306	716,235	3,058		1,495,745	274,398	321,844
CANAL—Rock Island Oil & Ref. Co.			11,016				11,016		
CAT CREEK—									
Continental Pipeline Co.		14,651				14,651			
Truck			3,077			3,077			
		14,651	3,077			17,728			
CLARK'S FORK SOUTH—									
Permian Corp.			1,861				1,861		
COW CREEK—West. Crude Oil Corp.			2,370				2,370		
CULBERTSON—Spruce Oil Co.			842				842		
CUT BANK—									
Continental Pipeline Co.			12,552	512,202				24,754	
Phillips Petroleum Co.	44,617	191,594		9,359	2,701	134,377		47,926	60,566
Texas Pipeline Co.	12,844	57,045		76,563	296	130,862			15,294
Union Oil Co.	41,847	67,110		18,678	1,123	59,088			67,424
Western Oil Trans. Co.		65,657						65,657	
Western Oil Trans. Co. (Moulton)		94,595						94,595	
	99,308	476,001	12,552	616,802	4,120	324,327		732,932	143,284
DELPHIA—Truck			203			203			
DWYER—Portal Pipeline Co.		25,262					25,262		
ELK BASIN & ELK BASIN NORTHWEST—									
Marathon Pipeline Co.		173,344				173,344			
FAIRVIEW—Fairview Pipeline Co.		17,583					17,583		
Rock Island Oil & Ref. Co.			27,596				27,596		
		17,583	27,596				45,179		
FLAT COULEE—									
Camerland Cardinal Corp.		6,748				6,748			
FLAT LAKE & FLAT LAKE SOUTH—Portal Pipeline Co.		61,901					61,901		
FT. GILBERT—Truck			16,202				16,202		
FRANNIE—Interstate Pipeline Co.		1,457					1,457		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	7,279	31,242				26,057			12,464
GIRARD—Rock Island Oil & Ref. Co.			5,457				5,457		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipeline Co.	7,824	27,961			(144)			30,800	5,129
GOOSE LAKE—									
Portal Pipeline Co.		35,087					35,087		
HAY CREEK—									
Fairview Pipeline Co.		8,440					8,440		
HIAWATHA—									
Continental Pipeline Co.		7,560					7,560		
HIBBARD—Truck			614			614			
INJUN CREEK—Permian Corp.			1,243				1,243		
IVANHOE—									
Continental Pipeline Co.		5,641				5,641			
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		13,069				13,069			
KELLEY—									
Continental Pipeline Co.		4,335				4,335			
KEVIN SUNBURST—									
Big West Oil Co.	8,647	8,806							17,453
Homestake Oil & Gas Co.	3,100	1,890				2,339			2,651
Texas Pipeline Co.	7,575	9,829			177			9,866	7,360
	19,321	20,525			177	2,339		9,866	27,464
LEARY—Permian Corp.			1,605				1,605		
LITTLE WALL CREEK—									
Continental Pipeline Co.		4,430					4,430		
MELSTONE—									
Continental Pipeline Co.		1,874				1,874			
OTIS CREEK—Truck			3,497				3,497		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		24,818					24,818		
PONDERA—Phillips Petr. Co.	22,067	27,298			347	15,156			33,862
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE, RICHEY, TULE CREEK, TULE CREEK SOUTH AND VOLT—									
East Poplar Gathering System	13,288	81,132			(366)			79,294‡	15,492
RAGGED POINT—									
Continental Pipeline Co.		6,738				6,738			
RED CREEK—									
Western Oil Transportation Co.		18,132						18,132	
RESERVE—Portal Pipeline Co.		8,680					8,680		
RUSH MOUNTAIN—									
Sinclair Refining Co.		3,083					3,083		
SALT LAKE—									
Rock Island Oil & Ref. Co.			4,085				4,085		
SHOTGUN CREEK—Truck			200				200		
SIDNEY—Truck			500					500	
SNYDER—Permian Corp.			980			980			
SOAP CREEK—Permian Corp.			4,113				4,113		
SPRING LAKE—									
Rock Island Oil. & Ref. Co.			2,384				2,384		
SUMATRA & STENSVAD—									
Continental Pipeline Co.	595,913	90,645		1,850,500		81,908		1,954,700	500,450
TULE CREEK—									
Spruce Oil Corp.	9,252		37,962			42,838			4,376
Permian Corp.			5,498			5,498			
	9,252		43,460			48,336			4,376
WEED CREEK—									
Continental Pipeline Co.		2,541				2,541			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.	3,891	12,316				9,357		6,850	
WILLOW CREEK NORTH—									
Continental Pipeline Co.		6,170						6,170	
WOLF SPRINGS—									
Continental Pipeline Co.		5,125				5,125			
WILDCAT WELLS—Truck			55,061				55,061		
TOTALS	1,202,148	2,885,729	257,011	3,183,537	7,192	771,037	2,262,195	3,359,801	1,128,200

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Little Beaver, Little Beaver East, Lookout Butte, Monarch, Pennel, Pine, Repeat, Richey, Richey Southwest, Weldon & Wills Creek South.

‡Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF MARCH, 1971

Field	Big West Oil Co	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Spruce Oil Co.	Westco Ref. Co.	Total
Big Wall	.....	10,087	.....	.....	.....	.....	.....	.....	.....	10,087
Cat Creek	.....	407	.....	11,186	.....	3,624	.....	.....	.....	15,217
Cut Bank	82,104	.....	.....	.....	.....	.....	114,942	.....	162,793	359,839
Delphia	.....	.....	.....	.....	.....	741	.....	.....	.....	741
Elk Basin	.....	68,406	.....	44,874	60,064	.....	.....	.....	.....	173,344
Flat Coulee	.....	.....	.....	.....	.....	.....	.....	.....	14,993	14,993
Fred & George Creek	26,057	.....	.....	.....	.....	.....	.....	.....	.....	26,057
Gage & Gage Southwest	.....	.....	.....	.....	.....	62	.....	.....	.....	62
Hibbard	.....	.....	.....	.....	.....	1,048	.....	.....	.....	1,048
Ivanhoe	.....	5,641	.....	.....	.....	.....	.....	.....	.....	5,641
Keg Coulee	.....	2,820	.....	10,249	.....	.....	.....	.....	.....	13,069
Kelley	.....	.....	.....	.....	4,335	.....	.....	.....	.....	4,335
Kevin Sunburst	2,339	.....	.....	.....	.....	.....	.....	.....	.....	2,339
Melstone	.....	.....	.....	1,874	.....	.....	.....	.....	.....	1,874
Pondera	.....	.....	.....	.....	.....	.....	24,892	.....	.....	24,892
Ragged Point	.....	.....	.....	6,738	.....	.....	.....	.....	.....	6,738
Snyder	.....	980	.....	.....	.....	.....	.....	.....	.....	980
Sumatra & Stensvad	.....	11,626	.....	57,320	12,962	.....	.....	.....	.....	81,908
Tule Creek	.....	.....	.....	.....	.....	.....	.....	78,637	.....	78,637
Weed Creek	.....	.....	.....	.....	2,541	.....	.....	.....	.....	2,541
Whitlash	.....	.....	.....	.....	.....	.....	9,359	.....	.....	9,359
Wolf Springs	.....	.....	.....	.....	5,125	.....	.....	.....	.....	5,125
Total Montana Oil	110,500	99,967	.....	132,241	85,027	5,475	149,193	78,637	177,786	838,826
Canadian Oil Imported	.....	498,368	.....	234,942	183,579	.....	.....	.....	.....	916,889
Wyoming Oil Imported	.....	776,364	.....	418,593	993,301	.....	.....	.....	.....	2,188,258
Total Montana, Canadian, and Wyoming Oil	110,500	1,374,699	.....	785,776	1,261,907	5,475	149,193	78,637	177,786	3,943,973

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1970	24,878	25,744	65,351	115,973
March, 1970	23,142	14,641	67,535	105,318
March, 1971	27,059	29,577	70,589	127,225

PERCENTAGE OF CRUDE OIL REFINED

Montana	Canada	Wyoming
21.45%	22.20%	56.35%
21.97%	13.90%	64.13%
21.27%	23.25%	55.48%